

by the output-voltage calculating unit; and

a switching unit that switches a direct voltage according to the PWM signal output by the PWM-pattern generating unit and supplies an alternating voltage with a predetermined frequency to the induction motor.

3. (Amended) The inverter device according to claim 1, wherein

when the plurality of output-voltage command values are to be calculated and if the frequency command value is greater than a predetermined value,

the output-voltage calculating unit calculates a larger number of output-voltage command values than a case of being smaller than the predetermined value.

4. (Amended) The inverter device according to claim 1, wherein

the output-voltage calculating unit calculates the plurality of output-voltage command values when the frequency command value is greater than a predetermined value, and calculates one output-voltage command value when it is smaller than the predetermined value.

5. (Amended) The inverter device according to claim 2, wherein

when the plurality of output-voltage command values are to be calculated and if the frequency command value is greater than a predetermined value,

the output-voltage calculating unit calculates a larger number of output-voltage command values than a case of being smaller than the predetermined value.

6. (Added) The inverter device according to claim 2,

wherein

the output-voltage calculating unit calculates the plurality of output-voltage command values when the frequency command value is greater than a predetermined value, and calculates one output-voltage command value when
5 it is smaller than the predetermined value.